(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



) HERRY BINNARI O CORNEGON CON CONTROLONI I NI BERNA URBI DIRE LUNI CON CONTROLONI FILIBIO DE LA CONTROLONI

(43) International Publication Date 10 February 2005 (10.02.2005)

PCT

(10) International Publication Number WO 2005/012945 A1

(51) International Patent Classification7: 1/20, 1/24

G01T 1/166,

(21) International Application Number:

PCT/GB2004/003295

(22) International Filing Date: 30 July 2004 (30.07.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 0318081.7

1 August 2003 (01.08.2003) GB

(71) Applicant (for all designated States except US): ST GEORGE'S HEALTHCARE NHS TRUST [GB/GB]; St George's Hospital, Blackshaw Road, Tooting, London SW17 0QT (GB).

(72) Inventor; and

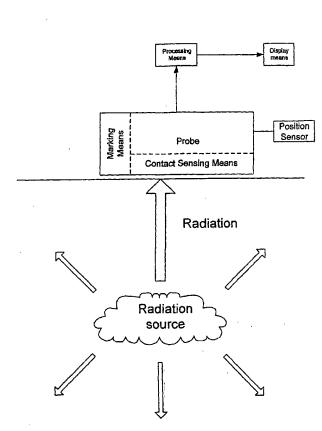
(75) Inventor/Applicant (for US only): BRITTEN, Alan

[GB/GB]; Imaging Section, Medical Physics &, Bioengineering Department, St George's Hospital, Blackshaw Road, Tooting London SW17 0QT (GB).

- (74) Agent: I.P. 21 LIMITED; Norwich Research Park, Colney, Norwich NR4 7UT (GB).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

[Continued on next page]

(54) Title: IMAGING SYSTEM



(57) Abstract: The invention provides an imaging system using an inherently non-imaging detection probe, linked to a, position and optional contact-sensing device, for use in scanning a surface having a surface radiation flux. The system has processing means to take signals from the detection probe and sensing devices, and to create an image of the geometry of the surface, and of the surface radiation flux. The system also provides means to determine the depth of a radiation source below the surface. The system also has means to present this image to a user.

WO 2005/012945 A1

1 (0.01% 1 (0.01%) A CORDO DEN CONTROLES SAN EN AN CONTROLES DEN CORDO CORDO DE LA CORDO CORDO DE LOS CORDOS D

ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NI., PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM,

ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

of inventorship (Rule 4.17(iv)) for US only

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.